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Examples: 59123456PA, 59123456PB, 59123456ZA, 59123456ZB

09/247875 BA

Indicate quantity of a single type of artifact received but not scanned. Create individual artifact folder/box and artifact number for each Artifact Type.

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CD(s) containing:

computer program listing

Doc Code: Computer

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Artifact Type Code: P

pages of specification

and/or sequence listing

and/or table

Doc Code: Artifact

Artifact Type Code: S

content unspecified or combined

Doc Code: Artifact

Artifact Type Code: U

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Stapled Set(s) Color Documents or B/W Photographs

Doc Code: Artifact Artifact Type Code: C

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Microfilm(s)

Doc Code: Artifact Artifact Type Code: F

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Video tape(s)

Doc Code: Artifact Artifact Type Code: V

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Model(s)

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Bound Document(s)

Doc Code: Artifact Artifact Type Code: B

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The Commissioner of Patents and Trademarks

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

Bruce Lehman

Commissioner of Patents and Trademarks

Maguire v. Jamer

Attest



US005602811A

United States Patent [19]

[11] Patent Number: 5,602,811

Ogusu et al.

[45] Date of Patent: Feb. 11, 1997

[54] MUSICAL INFORMATION RECORDING
AND REPRODUCING TECHNIQUE FOR USE
WITH A RECORDING MEDIUM HAVING A
UTOOC AREA

[75] Inventors: Mikio Ogusu; Kazunobu Fujiwara;
Kei Tanaka, all of Hamamatsu, Japan

[73] Assignee: Yamaha Corporation, Hamamatsu,
Japan

[21] Appl. No.: 510,377

[22] Filed: Aug. 2, 1995

[30] Foreign Application Priority Data

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Sep. 8, 1994 [JP] Japan 6-240519

[51] Int. Cl.⁶ G11B 7/00

[52] U.S. Cl. 369/47; 369/48; 369/58;
369/59; 369/124; 84/624

[58] Field of Search 369/54, 47, 48,
369/49, 50, 59, 58, 124, 32; 360/32, 48;
84/624, 625, 635, 636, 634, 639, 651, 652

[56] References Cited

U.S. PATENT DOCUMENTS

5,194,682 3/1993 Okamura et al. 369/48 X

Primary Examiner—Muhammad N. Edun

Attorney, Agent, or Firm—Loeb & Loeb LLP

[57] ABSTRACT

There is generated a rhythm corresponding to a designated tempo and meter of a music piece to be recorded. Performance of a musical instrument is started at specific timing according to the generated rhythm, and the musical information resulting from the performance is recorded onto an MD (Mini Disk). The address on the MD read out when the performance of the music piece is started is retrieved as a start address of the music piece. After the recording, the retrieved start address is recorded onto the UTOC (User's-table-of-contents) area of the disk along with the designated tempo and meter. By reading out the start address, tempo and meter to calculate a measure number and start address of a desired measure on the basis of the read out information, display of a measure number being currently reproduced and quick access to the starting point of any desired measure can be achieved. In applications where plural channels are involved, part information indicative of performance parts assigned and recorded on the individual recording channels is also recorded onto the UTOC area. When necessary, the part information is visually displayed. In ping-pong recording, performance parts to be mixed are additively synthesized on the basis of the recorded part information and then recorded onto the UTOC area as part information for a channel where the mixed output is to be recorded.

3 Claims, 9 Drawing Sheets

